

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/002,964	11/02/2001	Franz Forster	964-011766	4446
7590 08/11/2004			EXAMINER	
William H. Logsdon WEBB ZIESENHEIM LOGSDON ORKIN & HANSON, P.C. 700 Koppers Building 436 Seventh Avenue Pittsburgh, PA 15219-1818			KRAMER, DEVON C	
			ART UNIT	PAPER NUMBER
			3683	
			DATE MAILED: 08/11/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	A U Al N	Amplicant(a)				
	Application No.	Applicant(s)				
	10/002,964	FORSTER, FRANZ				
Office Action Summary	Examiner	Art Unit				
	Devon C Kramer	3683   MW				
The MAILING DATE of this communicate Period for Reply	ation appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC.  - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun.  - If the period for reply specified above, the maximum statu.  - Failure to reply within the set or extended period for reply within the se	ATION.  37 CFR 1.136(a). In no event, however, may a lication. days, a reply within the statutory minimum of thitory period will apply and will expire SIX (6) MOI II, by statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed	on .					
	)⊠ This action is non-final.					
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-9 is/are pending in the appleada of the above claim(s) is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2 and 4-9 is/are rejected. 7) ☐ Claim(s) 3 is/are objected to. 8) ☐ Claim(s) are subject to restriction	withdrawn from consideration.					
·· ·	<b>-</b>					
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to b	'					
Priority under 35 U.S.C. § 119						
12) △ Acknowledgment is made of a claim fo  a) △ All b) ☐ Some * c) ☐ None of:  1. △ Certified copies of the priority do  2. ☐ Certified copies of the priority do  3. ☐ Copies of the certified copies of application from the International	ocuments have been received. Ocuments have been received in A the priority documents have been al Bureau (PCT Rule 17.2(a)).	Application No received in this National Stage				
Attachment(s)						
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTC)	4) Interview	Summary (PTO-413)				
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTCB) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 1.</li> </ul>		s)/Mail Date nformal Patent Application (PTO-152) 				

**Art Unit: 3683** 

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1) The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2) Claims 1-2 and 5-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Forster (DE 19854415).

In re claim 1, Forster provides a hydrostatic axial piston machine, comprising: a swashplate (1); a cylinder block (5); a cylinder block bearing assembly (3a, 3b); a brake (16) configured to arrest the cylinder block; and a compensation device (14) configured to at least partially relieve the cylinder block bearing system from axial engine forces, wherein the compensation device is integrated into the brake. Please note that when the bearing block moves to the right in figure 1, the spring, which is directly connected to the bearing block, partially absorbs some of the axial force.

In re claim 2, Forster provides a brake piston (15) that is loaded by the spring (14) in a closing direction of the brake; and wherein the brake piston has a relieving surface (portion with the fluid receiving surface) which can be pressurized by hydraulic pressure and acts in an opening direction of the brake and is effective opposite to the axial engine forces.

In re claims 5 and 8, Forster provides the axial piston machine located in a hub drive (figure 1), wherein the housing forms a stationary hub carrier, the cylinder block

Art Unit: 3683

forms a rotating hub, and the cylinder block bearing system forms a hub bearing system. (figure 1)

In re claim 6, Forster provides a wheel fastening flange (5a) and a rim-centering device (5b).

In re claims 7 and 9, Forster provides an arrangement where the swashplate is located and oriented such that radial engine forces under operating conditions are active opposite to the forces acting from outside on the cylinder block bearing system. Please note that the swash plate of the Forster reference has the same configuration as that of the instant application.

#### Claim Rejections - 35 USC § 103

- 3) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4) Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Forster (DE 19854415) in view of White (6145635).

In re claim 4, Forster teaches a multi-disk brake, but lacks the teaching of a wet multi-disk brake.

White teaches a wet multi-disk brake (col. 5 lines 20-21).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have provided the brake of Forster with a wet brake as taught by White in order to keep the brake cool during operation.

Art Unit: 3683

## Allowable Subject Matter

5) Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Forster (DE '136, DE '697, DE '334, US '123, US '340, US '122) all provide axial piston motors with similar features to the instant application.
- 7) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devon C Kramer whose telephone number is 703-305-0839. The examiner can normally be reached on Mon-Fri 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on 703-308-3421. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3683

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

14(0U)

DK